

Riscaldamento a Pellet



LCD THERMO PRODUCTS USER MANUAL

DUCHESSA IDRO - DUCHESSA IDRO STEEL - ELISIR IDRO MELINDA IDRO - MELINDA IDRO STEEL- ISIDE IDRO - GIORDANA IDRO



We thank you for having chosen our company; our product is a great heating solution developed from the most advanced technology with top quality machining and modern design, aimed at making you enjoy the fantastic sensation that the heat of a flame gives, in complete safety.



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WARNINGS

This instructions manual is an integral part of the product: make sure that it always accompanies the appliance, even if transferred to another owner or user, or if transferred to another place. If it is damaged or lost, request another copy from the area technician. This product is intended for the use for which it has been expressly designed. The manufacturer is exempt from any liability, contractual and extracontractual, for injury/damage caused to persons/animals and objects, due to installation, adjustment and maintenance errors and improper use.

Installation must be performed by qualified staff, which assumes complete responsibility for the definitive installation and consequent good functioning of the product installed. One must also bear in mind all laws and national, regional, provincial and town council Standards present in the country in which the appliance has been installed, as well as the instructions contained in this manual.

The Manufacturer cannot be held responsible for the failure to comply with such precautions.

After removing the packaging, ensure that the content is intact and complete. Otherwise, contact the dealer where the appliance was purchased.

All electric components that make up the product must be replaced with original spare parts exclusively by an authorised aftersales centre, thus guaranteeing correct functioning.

SAFETY

- The generator must not be used by persons (including children) with reduced physical, sensory and mental capacities or who are unskilled persons, unless they are supervised and trained regarding use of the appliance by a person responsible for their safety.
- Children must be checked to ensure that they do not play with the appliance.
- Do not touch the generator when you are barefoot or when parts of the body are wet or damp.
- The safety and adjustment devices must not be modified without the authorisation or indications of the manufacturer.
- Do not pull, disconnect, twist electric cables leaving the stove, even if disconnected from the electric power supply mains.
- It is advised to position the power supply cable so that it does not come into contact with hot parts of the appliance.
- The power supply plug must be accessible after installation.
- Do not close or reduce the dimensions of the airing vents in the place of installation. The airing vents are essential for correct combustion.
- Do not leave the packaging elements within reach of children or unassisted disabled persons.
- The hearth door must always be closed during normal functioning of the product.
- When the appliance is functioning and hot to the touch, especially all external surfaces, attention must be paid
- Check for the presence of any obstructions before switching the appliance on following a prolonged period of inactivity.
- The generator has been designed to function in any climatic condition (even critical). In particularly adverse conditions (strong wind, freezing) safety systems may intervene that switch the generator off. If this occurs, contact the technical aftersales service and always disable the safety systems.
- In the event the flue catches fire, use suitable systems for suffocating the flames or request help from the fire brigade.
- This appliance must not be used to burn waste
- Do not use any flammable liquids for ignition
- During the filling phase do not put the bag of pellets to into contact with the product
- The majolicas are top quality artisan products and as such can have micro-dots, crackles and chromatic imperfections. These features highlight their valuable nature. Due to their different dilation coefficient, they produce crackling, which demonstrate their effective authenticity. To clean the majolicas, it is recommended to use a soft, dry cloth. If a detergent or liquid is used, the latter could penetrate inside the crackles, highlighting them.

ROUTINE MAINTENANCE

Based on Decree 22 January 2008 n°37 art.2, routine maintenance means interventions aimed at reducing degradation due to normal use, as well as dealing with accidental events entailing the need of first interventions, which however do not modify the structure of the system upon which one is intervening or its intended use according to the requirements laid down by the technical standards in force and by the manufacturer's use and maintenance manual.



HYDRAULIC SYSTEM

Certain concepts referring to the Italian UNI 10412-2 (2009) Standard are described in this chapter.

As previously described, when installing, all national, regional, provincial and town council Standards in force provided by the country in which the appliance has been installed must be complied with.

TABLE OF DEVICES FOR CLOSED VESSEL SYSTEM, PRESENT AND NOT PRESENT IN THE PRODUCT	
Safety valve	V
Pump control thermostat (managed by the water probe and board program)	
Acoustic alarm activation thermostat	-
Water temperature indicator (display)	
Pressure transducer with display	
Acoustic alarm	-
Automatic circuit breater switch (managed by board program)	
Pressure transducer with minimum and maximum pressure switch alarm	
Water overheating automatic circuit breaker (blocking thermostat)	
Circulation system (pump)	
Expansion system	

During installation of the stove it is MANDATORY to adjust the system with a manometer in order to display the water pressure.

INSTALLATION AND SAFETY DEVICES

The installation, relative system connections, commissioning and inspection of correct functioning must be carried out perfectly, in total compliance with Standards in force, both national, regional and municipal, as well as these instructions. For Italy, installation must be carried out by professionally authorised staff (Ministerial Decree dated 22.01.08 n°37).

The manufacturer declines all responsibility for damages to objects and/or persons caused by the system.

TYPE OF SYSTEM

There are two different types of system:

• Open vessel plant and closed vessel plant.

The product has been designed and realised to work with closed vessel systems.



CHECK THAT THE PRE-FILLING PRESSURE OF THE EXPANSION VESSEL IS 1.5 BAR.



SAFETY DEVICES FOR CLOSED VESSEL SYSTEM

According to the UNI 10412-2 (2009) Standard in force in Italy, the closed systems must have: safety valve, pump control thermostat, acoustic alarm activation thermostat, temperature indicator, pressure indicator, acoustic alarm, regulation automatic circuit breaker switch, automatic circuit breaker block switch (block thermostat), circulation system, expansion system, safety dissipation system incorporated with the generator with thermal safety valve (self-activated), whenever the appliance does not have a temperature self-adjustment system.

DISTANCES OF SAFETY DEVICES ACCORDING TO THE STANDARD

The temperature safety sensors must be in place on the machine at a distance no greater than 30 cm from the flow connection. Whenever the generators lack a device, those missing can be installed on the generator flow pipe, within a distance no greater than 1 m from the machine.

COMMISSIONING CHECKS

Before connecting the boiler:

a) wash all system piping in order to remove any residues which might compromise the correct functioning of certain system components (pumps, valves, etc.).

b) check to verify that the flue has adequate draft, is not narrowed and that other appliances do not discharge into the flue. This is to prevent unexpected power increases. Only after this control can the flue fitting be mounted between the boiler and the flue. A check of the connections with pre-existing flues is recommended.

AUTOMATIC THERMOSTATIC MIXER VALVE (MANDATORY)

It is required to create an adequate anti-condensation circuit that ensures a return temperature for the appliance of at least 55° C. The anti-condensation valve, for example, is applied in solid fuel boilers as it prevents the return of cold water in the heat exchanger.

Routes 1 and 3 are always open and, together with the pump installed on the return, they guarantee water circulation inside the biomass boiler exchanger.

A high return temperature allows efficiency improvement, reduces formation of smoke condensation and prolongs the life span of the generator.

Valves on the market have different calibrations. The manufacturer advises use of model 55°c with 1" hydraulic connections. Once the valve calibration temperature is reached, route 2 is opened and the boiler water goes to the system via the flow.



Valve sold as an accessory (optional)

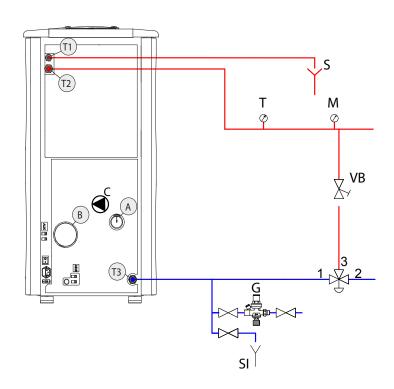


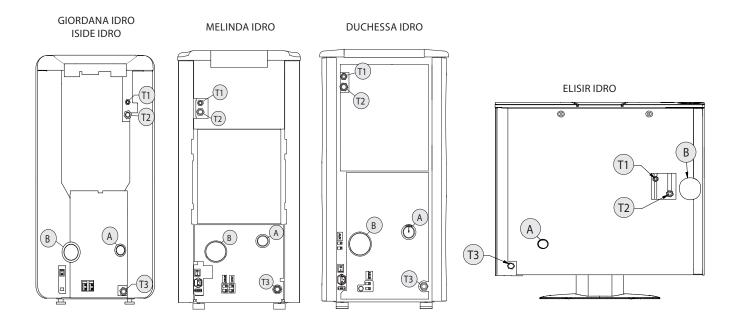
HYDRAULIC PLANT BASIC LAYOUT

NOTE:

the drawing in the figure is an example.

	KEY		
Α	A Primary air inlet		
В	Flue exhaust outlet		
С	c Circulator pump (in the models where provided)		
T1	3 bar safety drain		
T2	Boiler flow/outlet		
Т3	Boiler return/inlet		
М	Manometer		
Т	Thermometer		
G	Filling system		
S	S Safety valve discharge		
VB	Balance Valve		
SI	System exhaust		



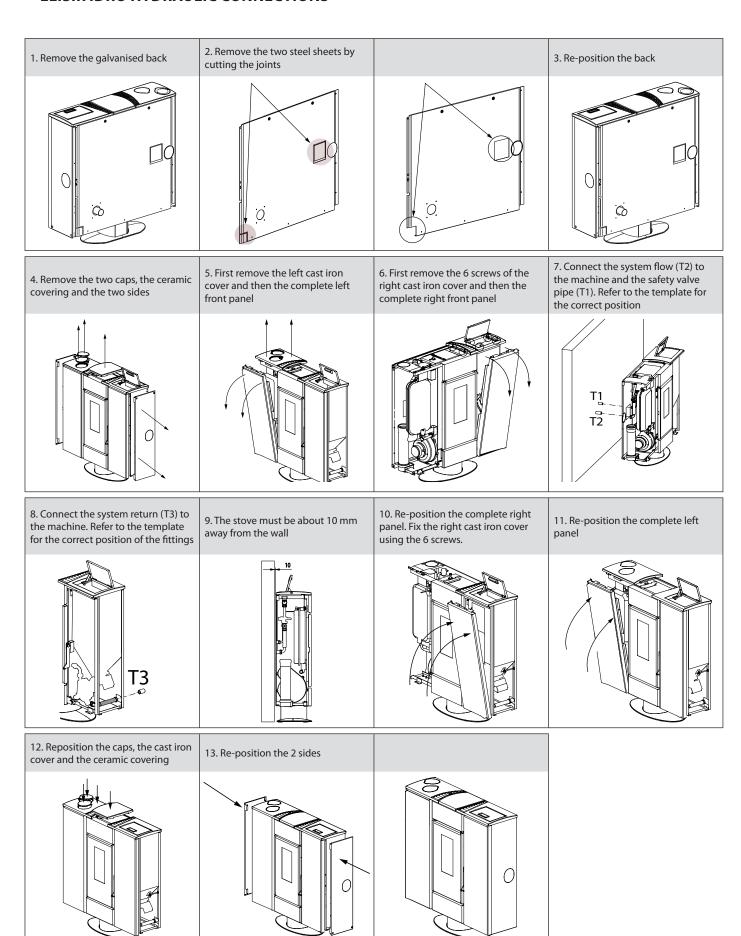




WE RECOMMEND REFERRING TO THE TEMPLATE MANUAL FOR FURTHER INFORMATION REGARDING HYDRAULIC CONNECTIONS, AIR INTAKE/FLUE EXHAUST AND DIMENSION SPECIFICATIONS OF THE PRODUCT IN QUESTION.



ELISIR IDRO HYDRAULIC CONNECTIONS





INSTANT DOMESTIC HOT WATER PRODUCTION KIT

Warnings: if the instant hot water production kit is to be used, contact the company technical after-sales service.

STOVE POSITIONING

For correct product functioning, it is recommended to position it in a way that it is perfectly level, with the aid of a spirit level.

REARMING

The figures below show the positions for rearming the tank (85°C) and H2O (100°C). We recommend contacting a qualified technician in the event rearming occurs to verify its cause.

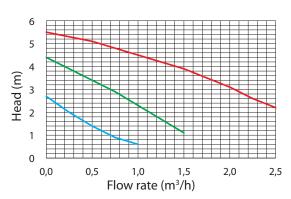


THERMO-PRODUCTS FEATURES

	DUCHESSA IDRO DUCHESSA STEEL IDRO	MELINDA IDRO MELINDA IDRO STEEL	ISIDE IDRO	ELISIR IDRO	GIORDANA IDRO
Water content of the thermo product heat exchanger (I)	13	13	18.5	15	18.5
Volume of expansion vessel integrated into thermo-product (I)	6	6	8	8	8
Maximum content of water in the system for integrated expansion vessel (I)*	23	23	33	36	33
3 bar safety valve integrated into the thermo-product	YES	YES	YES	YES	YES
Minimum and maximum pressure switch integrated into the thermoproduct	YES	YES	YES	YES	YES
Pump integrated into the thermo-product	YES	YES	YES	YES	YES
Pump max. head (m)	5	5	5	5	5

*Content of water in the system in addition to that of the thermo product that can be managed with the integrated expansion vessel. An additional expansion vessel must be installed for a higher content of water.

The following graph shows the behaviour of the circulator pump used on our thermo-products at the speeds that can be set.





DEVICES

(in the relevant models)

Door micro switch: With the door open, the operation of the burn pot cleaning system is blocked

Electronic pressure switch: in the event of inadequate pression, it sends the machine in alarm conditions

F 2.5 A 250 V fuse (stoves): protects the machine from violent current surges

85°C calibrated mechanical bulb with manual rearm: intervenes by blocking fuel feed if the pellet tank t° reaches the limit of 85°C. Rearm must be performed by qualified staff and/ or the manufacturer's technical after-sales assistance.

Pellet tank temperature control probe: if the tank over-heats, the machine automatically modulates to return to normal temperature values

Mechanical air pressure switch: blocks the pellet in the event of insufficient depression

REFERENCE STANDARDS

The installation must be in compliance with:

• UNI 10683 (2012) heat generators fed with wood and other solid fuels: installation.

The chimneys must be in compliance with:

- UNI EN 13063-1 and UNI EN 13063-2, UNI EN 1457, UNI EN 1806 in the event of non-metallic chimneys:
- EN 13384-1 (13384) chimneys. Thermal and fluid dynamic calculation methods.
- UNI EN 1443 (2005) chimneys: general requirements.
- UNI EN 1457 (2012) chimneys: clay/ceramic flue liners.
- UNI/TS 11278 (2008) Metal chimneys/flue liners/flue ducts.
- UNI 7129 point 4.3.3 Fire Brigade provisions, local rules and regulations.

NATIONAL, REGIONAL, PROVINCIAL AND TOWN COUNCIL REGULATIONS

One must also bear in mind all laws and national, regional, provincial and town council Standards present in the country in which the appliance has been installed.

TERMS AND DEFINITIONS

Aeration: Air renewal is required both for the disposal of the combustion products, and to prevent mixtures with a hazardous content of non-combusted gases.

Closed hearth appliance: Appliance designed for operation with closed combustion chamber.

Forced draught appliance: Appliance with ventilation in the fumes circuit and combustion with fumes flow at a positive pressure with respect to the environment.

Chimney: Structure consisting in one or several walls containing one or several outflow airways.

The purpose of this predominantly vertical element is to expel the combustion products at a convenient height from the ground.

Smoke duct: Component or components that connect the outlet of the heat generator to the chimney.

Chimney cap: Device that placed on the chimney outlet allows the dispersion of the combustion products even in presence of adverse weather conditions.

Condensation: Liquid products which form when the fumes temperature is lower or equal to the water dew point.

Ducting pipe: Pipe made up of one or several predominantly vertical elements, specifically suitable for collecting and expelling the fumes, as well as to withstand the relative components and any condensate over time,

suitable to be installed in a chimney, existing or new technical compartment, even in new buildings.

Sealed installation: Installation of an appliance with sealed operation, so that all the air required for combustion is taken from outside.

Maintenance: Set of procedures required to ensure and maintain safety and functionality over time and maintain the efficiency of the system within the prescribed parameters.

Chimney system: Chimney installed using a combination of compatible components, manufactured or specified by a sole manufacturer whose product liability covers the entire chimney.

Fumes exhaust system: Flue gas exhaust system, independent from the appliance made up of a smoke duct, chimney or individual flue and chimney cap.

Radiation area: Area immediately in front of the hearth in which the radiant heat caused by combustion is diffused.

Reflux area: Area beyond the extrados of the roof in which overpressure or depressions occur, which may affect the proper discharge of the combustion products.



FUNCTIONAL OPERATIONS DIAGRAM

State of the art installation and proper system operation include a series of activities:

1. Preliminary activities:

- Verification of the suitability of the power of the heat generator based on the characteristics of the system
- verification of the suitability of the installation site,
- verification of the suitability of the fumes exhaust system,
- verification of the suitability of the outside air inlets;

2. Installation:

- implementation of ventilation and connection to the outer air inlets,
- implementation and connection to the fumes exhaust system,
- assembly and installation,
- electric and hydraulic connections,
- installation of insulation,
- ignition and operation test,
- installation of finishings and coverings;

3. Issue of complementary documentation;

4. Inspection and maintenance.

Other actions may be required in relation to specific requests of the competent authority.

PRELIMINARY ACTIVITIES

GENERAL

Verification of compatibility of the system, of any restrictions required by local administrative regulations, special or conventional requirements resulting from condominium regulations, constraints, laws or administration deeds must precede any other assembly or installation operation.

One must especially verify the suitability:

- of the installation premises, of the appliances already installed in the installation premises and in the adjacent and adjoining premises, also powered by different fuels, with particular reference to non-compliant installations.
- of the fumes exhaust system
- of the outside air inlets

SUITABILITY OF THE FUMES EXHAUST SYSTEM

Installation must be preceded by a compatibility test between the appliance and the fumes exhaust system, by verifying:

- the existence of documentation relating to the system;
- existence and content of the chimney plaque;
- suitability of the internal section of the chimney;
- absence of obstructions all along the chimney;
- predominantly vertical height and development of the chimney;
- existence and suitability of the chimney cap;
- distance of the outside wall of the chimney and of the smoke duct from
- combustible materials;
- chimney type and material;
- absence of other chimney connections.



INSTALLATION

Installation in premises with fire hazards is forbidden. Installation in residential premises (except for sealed operation appliances) is also forbidden:

- in which there are liquid fuel-operated appliances with continuous or intermittent operation, which draw the combustion air in the room in which they are installed, or
- in which there are type B gas appliances intended for room heating, with or without production of domestic hot water and in adjacent and adjoining premises, or
- in which, in any case, the depression measured during installation between the internal and external environment is greater than 4 Pa

Installations in bathrooms, bedrooms and studio flats

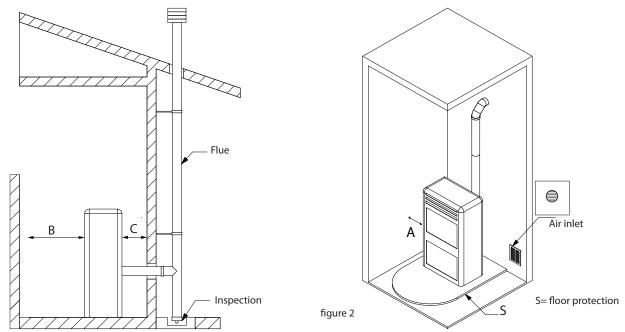
Installation in bathrooms, bedrooms and studio flats is only allowed for sealed or closed hearth appliances with ducted combustion air taken from the outside.

Installation premises requirements

The support surfaces and/or points must have a suitable load-bearing capacity to support the weight of the appliance, of the accessories and coatings.

The adjacent, side and rear walls and the supporting surface must be made of non-combustible material. Installation near combustible materials or those sensitive to heat is permitted as long as there is a suitable safety distance, which for pellet stoves is equal to:

REFERENCES	INFLAMMABLE OBJECTS	NON-INFLAMMABLE OBJECTS
A	200 mm	100 mm
В	1500 mm	750 mm
С	200 mm	100 mm



In any case the temperature of the adjacent combustible materials must not reach a temperature equal to or greater than the room temperature increased by 65°C.

The minimum volume of the premises in which to install the appliance must be greater than 15 m³.

INSERTS INSTALLATION

figure 1

In the event of installation of inserts, access to the internal parts of the device is to be prevented and, during extraction, it should not be possible to access to live parts.

Any wiring, such as a power supply cable or room sensors must be positioned so as not to be damaged during movement of the insert, or come into contact with hot parts.



VENTILATION AND AERATION OF THE INSTALLATION PREMISES

Ventilation is deemed sufficient when the room is equipped with air inlets according to the table:

Air inlet

See figure 2

Appliance categories	Reference standard	Percentage of the net opening section with respect to the appliance fumes outlet section	Minimum net opening value of the ventilation duct
Pellet stoves	UNI EN 14785	-	80 cm ²
Boilers	UNI EN 303-5	50%	100 cm ²

In any case ventilation is deemed sufficient when the pressure difference between the external and internal environment is equal to or less than 4 Pa.

In the presence of type B gas appliances with intermittent operation not intended for heating, they must have their own aeration and/or ventilation opening. The air inlets must meet the following requirements:

- they must be protected with grids, metal mesh, etc., but without reducing the net useful section;
- they must be made so as to make the maintenance operations possible;
- positioned so that they cannot be obstructed;

The flow of clean, uncontaminated air can also be obtained from a room adjacent to that of installation (indirect aeration and ventilation), as long as the flow takes place freely through permanent openings communicating with the outside.

The adjacent room cannot be used as a garage, warehouse of combustible material or for any other activity with a fire hazard, bathroom, bedroom or common room of the building.

FUMES EXHAUST SYSTEM

GENERAL REQUIREMENTS

The heat generator works in a vacuum and has an output fan for fume extraction. Each appliance must be connected to a suitable fumes exhaust system and ensure adequate dispersion of the combustion products into the atmosphere. The combustion products must discharged above the roof. Direct discharge from the wall or towards closed spaces is forbidden, even with clear skies. In particular, it is forbidden to use flexible and extendible metal pipes.

The chimney should only receive the exhaust of the smoke duct connected to the appliance; collective flues or conveying exhausts from hoods above cooking appliances of any kind, or exhausts from other generators into the chimney itself or smoke duct are not allowed.

The smoke duct and the chimney must be connected with a continuity solution, in order to prevent the chimney from resting on the appliance.

It is forbidden to have other air supply channels and pipes for plant engineering transit inside the fumes exhaust systems, especially if over-sized.

The components of the fumes exhaust system must be chosen in relation to the type of appliance to be installed in compliance with:

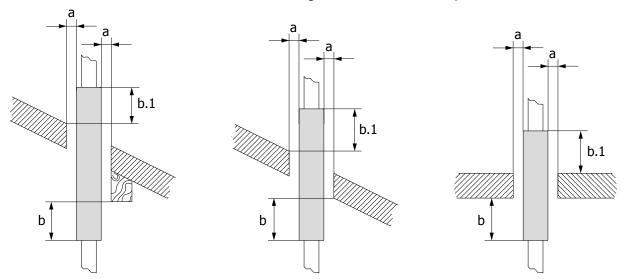
- in the event of metal chimneys, UNI/TS 11278, with particular attention to what is stated in the specification;
- in the event of non-metallic chimneys: UNI EN 13063-1 and UNI EN 13063-2, UNI EN 1457, .-UNI EN 1806; considering especially:
- temperature class;
- pressure class (fumes seal) at least equal to the seal required for the appliance;
- moisture resistance (resistance to condensation);
- class or level of corrosion and specification of the materials constituting the inner wall in contact with the fumes.
- soot fire resistance class;
- minimum distance from combustible materials
- Where due to high efficiency a pellet stove has fumes at a temperature of less than 160°C + ambient (see technical data) it must be resistant to moisture.

The installer of the fumes exhaust system, once the installation is complete and the relevant checks and inspections have been made, must fix the chimney plaque supplied by the manufacturer with the product in a visible manner, near the fireplace, and which must be completed with the following information:



- nominal diameter;
- distance from combustible materials, indicated in millimetres, followed by the arrow and flame symbol;
- installer data and date of installation.

Every time one must cross combustible materials, the following indications must be complied with:



SYMBOL	DESCRIPTION	QUOTA[MM]
b	b Minimum distance of combustible materials from the intrados of the framework/floor/wall	
b.1	b.1 Minimum distance of combustible materials from the extrados of the framework/floor	
a	Minimum distance from combustible materials defined by the manufacturer	G(xxx)

The single wall pipes are indicated in white.

The insulated double wall chimney systems are indicated in grey.

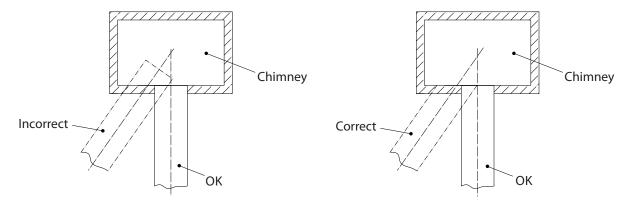
One can disregard the quota only in the event of using an appropriate heat protection screen (for example: wall plate) to protect the intrados of the framework/floor

SMOKE DUCT

General requirements

The smoke ducts must be installed in compliance with the following general requirements:

- be equipped with at least one sealed outlet for eventual fumes sampling;
- they must be insulated if they cross through rooms that are not to be heated or outside the building;
- they must not cross rooms in which the installation of combustion appliances is forbidden, nor in other premises compartmentalised against fire or with a fire hazard, nor in rooms and/or areas that cannot be inspected;
- they must be installed so as to allow normal thermal expansion;
- they must be fitted to the opening of the chimney without protruding inwards;
- the use of flexible metal pipes to connect the appliance to the chimney is not allowed;



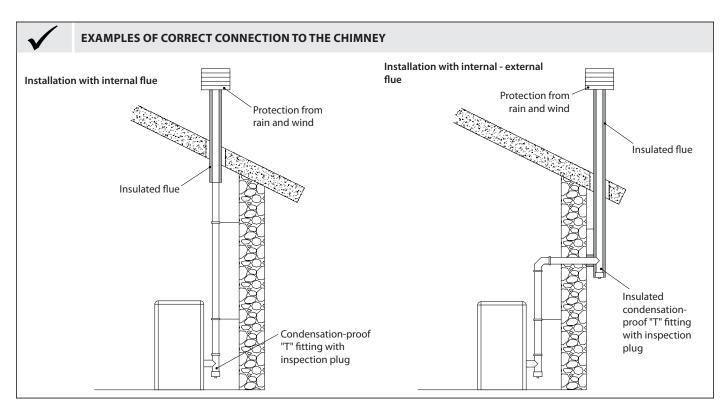


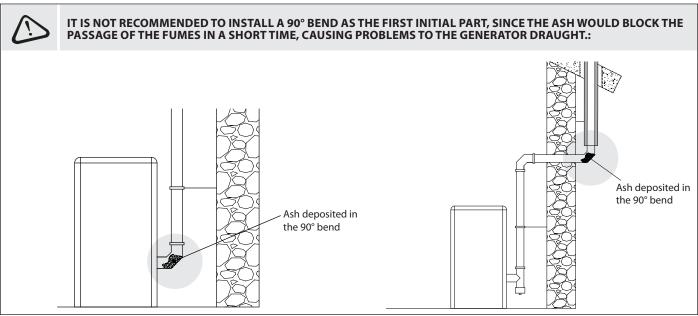
- counter-slope sections are not allowed;
- the smoke ducts must have, along their entire length, a diameter that is no less than that of the attachment of the appliance exhaust pipe; any section changes are allowed only on the inlet to the chimney;
- they must be installed so as to limit the formation of condensation and prevent their release from the joints;
- they must be positioned at a distance no less than that indicated in the product specifications from combustible materials;
- the smoke channel/duct must allow to collect the soot and to be cleaned using a swab and inspected after being disassembled, or through inspection openings when not accessible from inside the appliance.

ADDITIONAL REQUIREMENTS FOR APPLIANCES FITTED WITH AN ELECTRIC FAN FOR FUMES EXPULSION

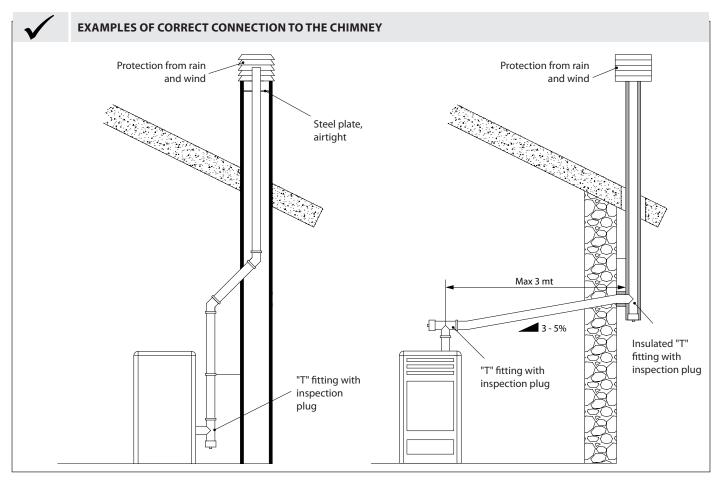
For the heat generator appliances equipped with electric fan for expelling fumes, the instructions below must be followed:

- The horizontal sections must have a minimum upward slope of 3%
- The length of the horizontal section must be minimal and, in any case, no longer than 3 metres
- The number of direction changes including the one due to the use of the "T" element must not be more than 4.









It is mandatory to use airtight pipes.

CHIMNEY

In addition to the general requirements, the chimneys for releasing combustion products into the atmosphere must:

- operate under negative pressure (operation under positive pressure is not allowed);
- have a preferably circular internal section; square or rectangular sections must have rounded corners with a radius of no less than 20 mm (hydraulically equivalent sections may be used, as long as the ratio between the longer side and the shorter side of the rectangle, which circumscribes the section, is in any case no greater than 1.5);
- be designed for fumes be designed for fumes expulsion;
- be predominantly vertical and have no narrowing along their entire length;
- have no more than two direction changes with a slope angle no greater than 45°;
- be fitted with, in the event of operating in damp conditions, a device for reflux drainage (condensation, rainwater);

Ducted system

A ducted system can be installed with one or more ducts, operating only with negative pressure with respect to the environment.

The flexible hose compliant with UNI EN 1856-2, with T400-G characteristics, meets the requirements.

CHIMNEY CAPS

The chimney caps must meet the following requirements:

- they must have a useful outlet section no less than double of that of the chimney/ducted system on which it is installed;
- they must be adapted in order to prevent the penetration of rain and snow in the chimney/ducted system;
- they must be built so that, in the event of winds coming from all directions and from any angle, the expulsion of combustion products is in any case ensured;
- they must be free from mechanical intake aids.



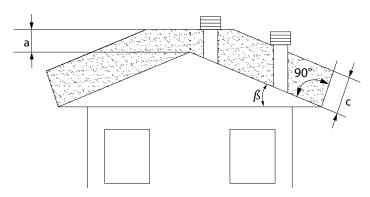
COMBUSTION PRODUCTS OUTLET QUOTA

The outlet quota is determined by measuring the minimum height between the roof covering and the lower point of the fumes expulsion section into the atmosphere; this quota must be outside the reflux area and at an adequate distance from obstacles which hinder or make the expulsion of the combustion products difficult or from openings or accessible areas.

Reflux area

The outlet quota must be outside the reflux area calculated according to the indications below. Near the ridge one considers the lowest between the two.

Buffer area for outlet quota



Clear area for outlet quota above the roof slope ($\beta > 10^{\circ}$)

REFERENCE	DESCRIPTION	CLEAR AREA (MM)
c Distance measured at 90° from the roof surface		1300
a Height above the ridge of the roof		500

The outlet of a chimney/ducted system must not be near obstacles that may create turbulence areas and/or prevent proper expulsion of combustion products and maintenance operations to be carried out on the roof. Verify the presence of other chimney caps or skylights and dormers.

FUMES EXHAUST SYSTEM PRODUCT REQUIREMENTS

Temperature class

In the event of a pellet appliance, temperature classes below T200 are not allowed.

Soot fire resistance class

The fumes exhaust system interlocked with appliances supplied by solid fuels require soot fire resistance, and the specification must be indicated by the letter G followed by the distance from combustible materials in millimeters (XX) (in compliance with UNI EN 1443).

In the event of pellet appliances, the fumes exhaust systems must be airtight; if double designation elements are used (G and O, with or without seal elastomer) for connecting the appliance to the chimney, one must comply with the minimum distance XX in millimeters, indicated for designation G; in the event of fire due to soot, one must ensure the restoration of the initial conditions (by replacing the gaskets and damaged items and cleaning those remaining in use).

Ignition tests

Operation of the appliance must be verified with an ignition test, i.e.:

• for mechanical feed appliances, one must complete the ignition test, verify proper operation for at least the next 15 minutes and adjust the switch-off;

For appliances installed in a hot water heating system (closed fireplaces, thermo-stoves), testing must also extend to the entire hydraulic circuit.



Coverings and finishings

The coverings and finishings must only be applied after having verified the proper operation of the appliance according to the indicated modalities

TECHNICAL INSTALLATION DOCUMENTATION

When installation is complete, the installer must provide the owner or person acting for him, according to the legislation in force, with the declaration of conformity, supplied with:

- 1) the use and maintenance manual of the appliance and of the system components (such as for example, the smoke ducts, chimney, etc.);
- 2) photocopy or photograph of the chimney plaque;
- 3) system booklet (where applicable).

The installer must ask to be issued with a receipt stating that the documentation has been provided, and must keep it with a copy of the technical documentation relating to the installation.

Installation performed by several parties

If the individual installation steps are carried out by different parties, each must document the work carried out for the customer and the for the operator working on the next step.

INSPECTION AND MAINTENANCE

Frequency of operations

Maintenance of the heating system and of the appliance must be carried out on a regular basis according to the table below:

TYPE OF APPLIANCE INSTALLED	<15kW	(15- 35) kW
Pellet operated appliance	1 year	1 year
Water operated appliances (closed fireplaces, thermo-stoves, thermo-kitchens)	1 year	1 year
Boilers	1 year	1 year
Fumes exhaust system	4 t of fuel used	4 t of fuel used

For further details refer to the "cleaning and maintenance" chapter.

Inspection and maintenance report

At the end of the inspection and/or maintenance operations, a report must be issued and released to the owner, or person acting for him, who must confirm its receipt in writing. The report must indicate the situations encountered, the action taken, any components replaced or installed and any comments, recommendations and requirements. The report must be kept with the relative documentation.

In the inspection and maintenance report one must mention:

- anomalies detected that cannot be removed, which pose a risk to the safety of the user or serious damage to building;
- components that have been tampered with.

If anomalies as per above were detected, the owner, or person acting for him, must be warned in writing, in the maintenance report, to refrain from using the system until the safety conditions have been fully restored.

The inspection and maintenance report must include the main information of the technician or company who performed the inspection and/or maintenance operations, with their contact details, date of intervention and the signature of the operator.



PELLETS AND FEEDING

Pellets are made by applying high pressure to sawdust, or wood waste products (not containing paint) from sawmills, carpentry and other activities related to processing and working with wood. Given that it does not use any glue to hold it together this type of fuel is completely environmentally friendly. In fact the compactness of the pellets over time is guaranteed by a natural substance found in the wood itself: wood coal. In addition to being an environmentally friendly fuel in that it pushes wood residues to the limits pellets also have technical advantages. While wood has a calorific value of 4.4kWh/kg. (with 15% humidity after around 18 months of seasoning) the calorific value of pellets is 5 kWh/kg. Pellet density is 650kg/m3 and the water content is equal to 8% of its weight. For this reason they do not require seasoning in order to arrive at a sufficiently adequate degree of heat yield.

The pellets used must comply with the characteristics described by the following standards:

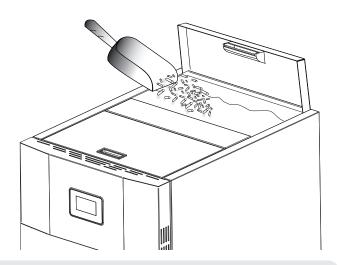
• EN PLUS - UNI EN 14961 - 2 (UNI EN ISO 17225-2) class A1 or A2

The manufacturer always recommended using pellets with a diameter of 6 mm with its products.

PELLET STORAGE

In order to ensure problem-free combustion pellets must be stored in a dry place.

Open the tank lid and load the pellets using a scoop.





THE USE OF EXPIRED PELLETS OR ANY OTHER MATERIAL WILL AFFECT THE FUNCTIONALITY OF YOUR GENERATOR AND MAY LEAD TO THE TERMINATION OF THE WARRANTY AND CESSATION OF ANY ACCOMPANYING RESPONSIBILITY ON THE PART OF THE MANUFACTURER

CHECKS AND PRECAUTIONS FOR FIRST IGNITION

IMPORTANT!

IN ORDER FOR THE GENERATOR TO WORK PROPERLY, THE HYDRAULIC SYSTEM'S PRESSURE MUST BE BETWEEN 0.6 AND 2.5 BAR.

If the pressure detected by the digital pressure switch is below 0.6 or above 2.5 bar, it triggers a boiler alarm.

Bringing the water pressure within the standard values, it is possible to reset the alarm by pressing the button (1)/1 for 3 seconds (The alarm can be reset only if the fumes motor has stopped and 15 minutes have elapsed from the display of the alarm)

THE PELLET LOADING MOTOR DOES NOT WORK:

Due to the filling of the system, it is normal that there is air inside the circuit.

During the 1st ignition cycle, water movement causes the displacement of air bubbles and their out-flow from the automatic vents out of the system. This can cause the pressure to drop and activate the minimum pressure switch, which stops the motor that transports the pellets and, therefore, the heat generator.

Vent out the system, if necessary even multiple times, to remove the air, and reload it if the pressure is too low.

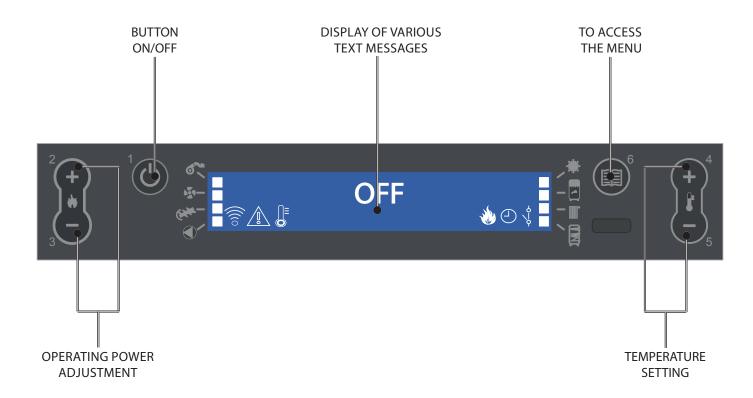
It is not a malfunction, but a normal occurrence due to its filling. After filling, the plumber must always thoroughly vent the system, using the special vents in the circuit and running the "air breather" function on the machine. (After the first ignition and with a cold machine, re-activate the function "air breather" - see chapter "OTHER FUNCTIONS")

BULB THERMOSTATS - RESET:

Check by pressing the reset buttons (85 - 100°C) located on the back of the appliance, before contacting a technician (see section RESET).

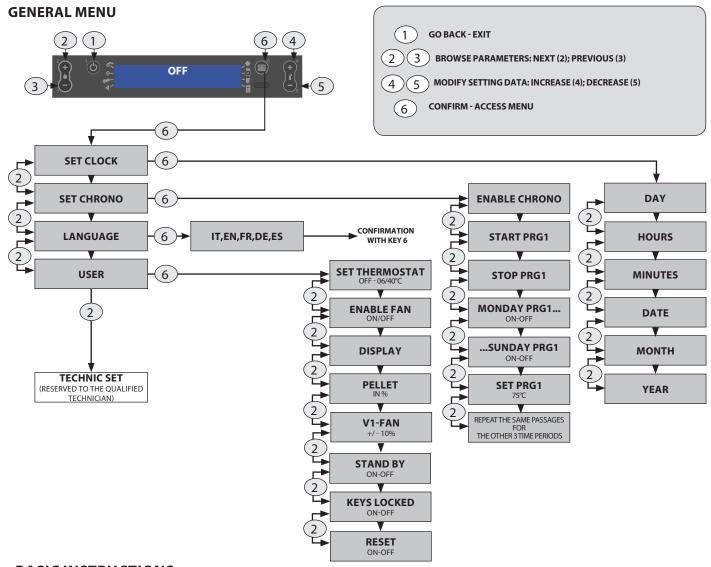


CONTROL BOARD



DISI	DISPLAY ICONS				
	Indicates the receipt of the radio signal On = during radio communication Off = no radio communication Flashing = excluded serial port		Indicates the stove modulation On = the stove is working at the set power Flashing = the power at which the stove is working is different to the power set, the stove is modulating (for various reasons)		
<u> </u>	Indicates the presence of an alarm. On: indicates the presence of an alarm Off: indicates the absence of alarms Flashing: indicates the deactivation of the depression sensor.		It indicates weekly programming functioning Indicator on = Weekly programming active Indicator off = Weekly programming not active		
Ē	Indicates the water temperature status $Off = the T^\circ read by the probe is over the set temperature set \\ On = the T^\circ read by the probe is below the set temperature set$	0_0	Indicates the contact of the external additional thermostat On = closed contact: the contact of the external additional thermostat is closed. On = open contact: the contact of the external additional thermostat is open. Flashing with closed contact: the contact of the external additional thermostat is closed and the STBY function is activated Flashing with open contact: the contact of the external additional thermostat is open and the STBY function is activated		
€ T	It indicates functioning of the fumes motor. Off = flue gas motor deactivated On = flue gas motor active Flashing = breakdown (contact technical after-sales service)		-		
USO)	It indicates functioning of the tangential fan (where present) Off = not working On = working Flashing = motor at minimum		-		
	It indicates functioning of the pellet feed motor. Off = pellet feed motor deactivated On = pellet feed motor active.	· · · · · · · · · · · · · · · · · · ·	-		
	It indicates pump functioning Off = pump deactivated On = pump active Flashing = the safety device is active (H2O temperature > 85°C)		-		





BASIC INSTRUCTIONS

The following recommendations must be followed the first times the stove is ignited:

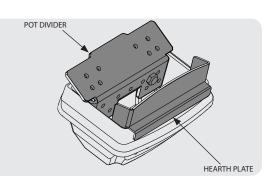
- It is possible that slight odours are produced due to the drying of the paints and silicones used. Avoid staying in the room for a long time.
- Do not touch the surfaces as they could still be unstable.
- Air the room well several times.
- The hardening of the surfaces is terminated after several heating processes.
- This appliance must not be used to burn waste.

Before igniting the stove, the following points must be verified:

- The hydraulic system must be finished in compliance with the standards and with the indications of this manual.
- The feed-box must be full of pellets
- The combustion chamber must be clean
- The burn pot must be completely clear and clean
- Check the hermetic closure of the fire door and the ash drawer
- Ensure that the power supply cable is connected correctly
- The bipolar switch in the rear right part must be positioned on 1



IT IS PROHIBITED TO USE THE APPLIANCE WITHOUT DIVIDER AND/OR HEARTH PLATE (SEE FOLLOWING FIGURE). ITS REMOVAL JEOPARDISES THE SAFETY OF THE PRODUCT AND WILL IMMEDIATELY MAKE THE WARRANTY NULL AND VOID. IN THE EVENT OF WEAR OR DETERIORATION, REQUEST THE SPARE PART FROM THE AFTER-SALES SERVICE (REPLACEMENTS ARE NOT COVERED BY THE WARRANTY SINCE ITEMS ARE SUBJECT TO WEAR).





THE REMOTE CONTROL

The remote control allows adjusting all that can normally be done through the LCD display The table below shows the various functions in detail:



1	ON / OFF	Pressing the key for three seconds, the stove will switch-on or off	
2	POWER INCREASE	Pressing the key will increase the Operating power	
3	POWER DECREASE	Pressing the key will decrease the Operating power	
4	T° INCREASE	This button allows increasing the temperature setpoint	
5	T° DECREASE	This button allows decreasing the temperature setpoint	
6	ENABLE/DISABLE CHRONO	Press this button once to enable or disable the chrono	
7	ENABLE DELAYED SWITCH-OFF	This button allows setting the delayed switch-off. For example, if the stove is set to switch off in an hour, it shall switch off automatically once the set time elapses, displaying the countdown every minute.	
8	MENU	this key provides access to the user and technical menu (the technical menu is reserved for assistance)	
9	INCREASE	This button allows increasing the temperature setpoint	
10	ESC KEY	This key allows the user to exit any program or display and return to the main menu without storing the data	
11	REVERSE	This button goes back in the display of the various menus	
12	CONFIRMATION KEY	This key confirms the adjustments made during the user menu programming phase	
13	FORWARD	This key moves forward in the various menus	
14	ENABLE F1 FUNCTION	Button designed for future applications	
15	DECREASE	This key decreases the value to be set	
16	STOVE STATUS	Press this key to view the general status of the stove	

Note: the numbers shown on the remote control are purely explanatory and are not present on the remote control supplied with the product.

TYPE AND REPLACEMENT OF BATTERIES

The batteries are housed in the lower part of the remote control.

To replace it, remove the battery holder (as indicated in the figure at the back of the remote control), remove or insert the battery, following the symbols on the remote control and on the battery itself.

For Operation, 1 CR2025, 3V lithium buffer battery is required.

containers.

The batteries used contain metals harmful for the environment. They must therefore be disposed of separately in appropriate





If the remote control is off because it has no batteries, stove can be controlled from the control panel on top of it.

While replacing the battery, pay attention to the polarity by observing the symbol on the inside compartment of the remote control.



COMMISSIONING SETTINGS

Once the power cable at the back of the stove has been connected, move the switch, also located on the back, to (I).

The switch at the back of the stove powers the stove board.

The stove remains off and a first screen appears on the panel with the word OFF.

ADJUSTING TIME, DAY, MONTH AND YEAR

Set clock allows to adjust the time and date

CONTROLS PROCEDURE

- Press button 6 and **SET CLOCK** will appear.
- Confirm using key 6.
- Use keys 4 and 5 to assign the day.
- Proceed pressing key 2
- Follow the same procedure (4 or 5 to set and 2 to proceed) to adjust the hours, minutes, date, month and year.
- Press key 1 several times to confirm and exit the Menu.

SET CLOCK		
DAY	MON, TUE, WED,SUN	
HOURS	023	
MINUTES	0059	
DATE	131	
MONTH	112	
YEAR	0099	

ADJUSTING LANGUAGE

It is possible to select the preferred language to display the various messages.

CONTROLS PROCEDURE

- Press key 6, until the text SET CLOCK appears.
- Press key 2 twice until SET LANGUAGE.
- Confirm using key 6.
- Select the language using key 4 o 5.
- Confirm using key 6 then key 1 to exit the Menu.

SET LANGUAGE				
LANGUAGE	ITALIAN			
	ENGLISH			
	GERMAN			
	FRENCH			
	SPANISH			



DO NOT USE ANY INFLAMMABLE LIQUIDS FOR IGNITION!

DO NOT ALLOW THE BAG OF PELLETS TO COME INTO CONTACT WITH THE BOILING HOT STOVE DURING THE FILLING PHASE! IN THE EVENT OF CONTINUOUS NO IGNITION, CONTACT AN AUTHORISED TECHNICIAN.



NO IGNITION

FIRST IGNITION COULD EVEN FAIL AS THE AUGER IS EMPTY AND IS NOT ALWAYS ABLE TO LOAD THE BURN POT WITH THE REQUIRED AMOUNT OF PELLETS ON TIME TO REGULARLY START THE FLAME.

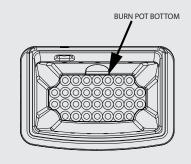
IF THE PROBLEM OCCURS AFTER ONLY A FEW MONTHS WORKING, CHECK THAT ROUTINE CLEANING STATED IN THE STOVE BOOKLET, HAS BEEN CARRIED OUT CORRECTLY.



CLEAN CHECK UP 1 - 2

SHOULD THE "CLEAN CHECK UP" ALARM BE TRIGGERED, MAKE SURE THAT THE BOTTOM OF THE BURN POT IS FREE FROM RESIDUES OR SCALES. THE HOLES AT THE BOTTOM MUST BE COMPLETELY FREE TO GUARANTEE CORRECT COMBUSTION.

"PELLET FEED ADJUSTMENT" TO ADJUST COMBUSTION ACCORDING TO REQUIREMENTS. IF THE ALARM PERSISTS AND THE ABOVE LISTED CONDITIONS HAVE BEEN CHECKED, CONTACT THE QUALIFIED AFTERSALES ASSISTANCE CENTRE.





FUNCTIONING AND LOGIC



IGNITION

Once the points listed previously have been checked, press key 1 for three seconds to ignite the stove.

15 minutes are available for the ignition phase. After ignition and having reached the control temperature, the stove interrupts the ignition phase and passes to STARTING.

STARTING

During the starting phase, the stove stabilises combustion, increasing it progressively, to then start ventilation and pass on to WORK.

WORK

During the work phase, the stove reaches the set power; see following item.

ADJUSTING POWER SETTING

Set the functioning power from 1 to 5 (settable using keys 2 - 3).

Power 1 = minimum level - Power 5 = maximum level.

SET H20 TEMPERATURE

Set the boiler temperature between 65 and 80 °C (using buttons 4 to 65).

CIRCULATOR PUMP OPERATION

The pump activates water circulation when the temperature of the water inside the stove reaches approx. 60°C. As the pump always functions above 60°, an always-open heating area is recommended to make product functioning homogenous, avoiding overheating blocks. Normally this area is defined "Safety zone".

ROOM TEMPERATURE (in models where provided)

front ventilation can be activated/deactivated and room temperature can be verified by means of the room probe (standard). (See chapter "enable fan" in the following pages.)

BURN POT CLEANING

While working, the stove has an internal counter which cleans the burn pot after a set amount of time.

This phase will be shown on the display, it will bring the stove to a lower power level and will increase the flue gas motor for a programmed amount of time. When the cleaning phase is finished, the stove will continue work going back to the selected power level.

MODULATION and H-OFF

As the temperature nears the setpoint, the boiler starts modulation, automatically setting itself at minimum power. If the temperature increases exceeding the setpoint, it will automatically switch off indicating **H-OFF** and will automatically switch on again once the temperature returns below the setpoint.

SWITCH-OFF

Press key 1 for three seconds.

When the Operation has been performed, the appliance automatically enters the switch- off phase, blocking the supply of pellets.

The flue exhaust motor and the hot air ventilation motor will remain on until the temperature of the stove has dropped below the factory parameters.

RE-IGNITION

The stove can be automatically and manually switched on only when the cooling cycle conditions and the set timer are met.



ADDITIONAL THERMOSTAT

N.B.: Installation must be performed by an authorised technician

It is possible to thermostat a room adjacent to the room where the stove is positioned: just connect a thermostat following the procedure described in the next point (it is recommended to position the optional mechanical thermostat at a height of 1.50m from the ground). Stove functioning with the external thermostat connected in the STBY clamp can be different on the basis of the activation or deactivation of the STBY function.

The STBY clamp leaves the factory jumpered, therefore it is always with closed contact (on request).

ADDITIONAL THERMOSTAT FUNCTIONING WITH STBY ACTIVE

When the STBY function is activated, the -o--o LED flashes. When the contact or external thermostat is not satisfied (open contact/temperature reached), the stove will switch off. As soon as the contact or external thermostat passes to the "not satisfied" status (closed contact/temperature to reach) it will re-ignite.

Note: stove functioning depends on the temperature of the water inside the same and relative factory restrictions set. If stove is in H OFF mode (water temperature reached), any additional contact or thermostat request will be ignored.

ADDITIONAL THERMOSTAT OPERATION WITH DEACTIVATED STBY

When the STBY function is deactivated, the -o∕-o LED is fixed.

When the contact or external thermostat is not satisfied (open contact/temperature reached), the stove will go to minimum. As soon as the contact or external thermostat passes to the "not satisfied" status (closed contact/temperature to reach) the stove will start to work again at the pre-set power.

Note: stove functioning depends on the temperature of the water inside the same and relative factory restrictions set. If stove is in H OFF mode (water temperature reached), any additional contact or thermostat request will be ignored.

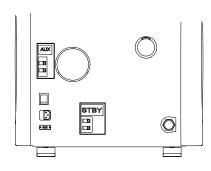
ADDITIONAL THERMOSTAT INSTALLATION

- Switch the appliance off using the master switch positioned on the rear of the stove.
- Remove the plug from the socket.
- Refer to the electrical layout to connect the two thermostat cables onto the relative clamps positioned don the rear of the machine, one is red and the other black (STBY clamp). **Every model can have a different position of the relative clamps in the rear of the machine. The image is given as an example.**

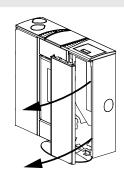


FOR STANDBY ACTIVATION, REFER TO THE "USER MENU" CHAPTER

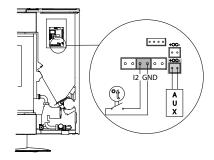
The STBY and AUX clamps, found at the back of the stove (except for the Elisir Idro Model), can be noted in the diagram at the side



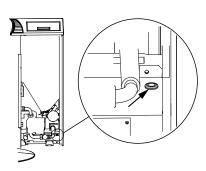
Follow the instructions described below for the connection to the STBY and AUX clamps. Remove the right panel



Follow the instructions described below for the connection to the STBY and AUX clamps. Remove the right panel



Pass the STBY and AUX wiring through the indicated cable gland



AUX

Connection reserved for Extraflame conveyed waves accessories. Contact the dealer for further details



USER MENU

SET THERMOSTAT

The following menu allows (**in models where provided**) setting the room temperature for those products equipped with front air fan. Once the set temperature is reached, the fan will set itself to the minimum.

The possible settings are: OFF - 06 ...40°C. The room temperature will be displayed alternately with the water temperature.

CONTROLS PROCEDURE

- Press the key 6, SET CLOCK will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Use keys 4-5 to select the room temperature.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.



ENABLE FAN

This menu allows (in models where provided) enabling or disabling tangential motor Operation

CONTROLS PROCEDURE

- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Press key 2 until "ENABLE FAN" is displayed.
- Use keys 4-5 to enable/disable ventilation.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.



DISPLAY

This menu allows to regulate the brightness of the display. The possible settings are from OFF - 10 to 31. By activating OFF, the backlit display shall turn off after a set delay.

The backlight will turn on again upon pressing a button or when the machine enters in alarm mode.

CONTROLS PROCEDURE

- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Press key 2 until "DISPLAY" is displayed.
- Use keys 4-5 to enable/disable ventilation brightness.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.



PELLET FEED ADJUSTMENT

The following menu allows the adjustment of pellet feed as a percentage.

If the stove has functioning problems owing to the quantity of pellets, adjust pellet feeding directly from the control board. The problems correlated to the amount of fuel can be divided into 2 categories:



NO FUEL:

- the stove can never develop a suitable flame, tending to remain very low even at high powers.
- at minimum power the stove tends to almost switch-off taking the stove into "NO PELLETS" alarm condition.
- when the stove displays the "NO PELLETS" alarm, there may be non-burned pellets inside the burn pot.

EXCESS FUEL:

- the stove develops a very high flame even at low power.
- the panoramic glass is very dirty, obscuring it almost totally.
- the burn pot tends to become encrusted, blocking the holes for air intake due to the excessive pellet feed, as it is only burned partially.

The regulation to be performed is a percentage. Therefore a modification of this parameter will lead to a proportional variation of all stove feeding speeds. Feeding is from -30% to +20%.

Follow the procedure on the display to perform this adjustment:

CONTROLS PROCEDURE

- Press the key 6, SET CLOCK will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Press key 2 until "PELLET" is displayed.
- Use key 4 to increase and 5 to decrease the load during the WORK phase.
- Press key 6 to confirm and 1 to return to the previous menus back to the initial status.

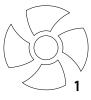
V1-FAN

This menu allows (in models where provided) adjusting the front fan speed percentage.

CONTROLS PROCEDURE

- Press the key 6, **SET CLOCK** will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Press key 2 until "V1 FAN" is displayed.
- Use keys 4 to increase and 5 to decrease
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.

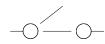


STAND-BY

The Stby function is used if immediate stove switch-off or modulation via additional external thermostat is desired.

CONTROLS PROCEDURE

- Press the key 6, SET CLOCK will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Press key 2 until "STAND BY" is displayed.
- Use keys 4-5 to enable/disable.
- Press key 6 to confirm and 1 to return to the menu back to the initial status.





KEYS LOCKED

The menu allows to lock the display keys (like mobile phone). Press keys 1 and 5 simultaneously. With the function activated, "KEYS LOCKED" will appear every time a key is pressed.

CONTROLS PROCEDURE

- Press the key 6, SET CLOCK will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Press key 2 until "KEYS LOCKED" is displayed.
- ◆ Use keys 4-5 to enable/disable.
- Press key 6 to confirm and 1 to return to the menu

back to the initial status.

RESET

Allows to reset all values modifiable by the user to the default values. The modified data are:

CONTROLS PROCEDURE

- Press the key 6, SET CLOCK will appear.
- Press key 2 several times until "USER" is displayed
- Press key 6.
- "SET THERMOSTAT" will appear
- Press key 2 until "RESET" is displayed.
- Use keys 4-5 to select **ON** and press key 6.
- The word " DONE" will be displayed to confirm

- SET H2O = 75°C
- ◆ SET TEMPERATURE = 35°C
- SET POWER = 5
- ◆ ENABLE CHRONO = OFF
- START PRG1=OFF
- STOP PRG1 = OFF
- MONDAY PRG1 = OFF
-all chrono parameters OFF
- ◆ PELLET = 00%
- STAND BY = OFF

AIR DISCHARGE

This function allows venting any air in the stove. Upon activating the function: The indicator lights of the circulators will light up on the display. (the pumps will be powered for 15 minutes and 30 seconds and then will stop for 30 seconds; cut the power to interrupt)

CONTROLS PROCEDURE

- Press keys 1 and 4 simultaneously.
- You will be prompted to enter the password.
- Enter code "77", using key 4
- Confirm using key 6.



CHRONO

The chrono allows to program 4 time spans within a day to use every day of the week. The switch-on and switch-off time can be set in every time span. along with the days of use of the programmed time span and the desired H2O temperature (65 - 80°C).



Example:

RECOMMENDATIONS

The ignition and switch-off times must be within the arc of one day, from 0 to 24 and not over several days:

Before using the chrono function, set the current day and time. Therefore check that the points listed in the "Set clock" sub-chapter have been followed, so that the chrono function works. Aside from programming it, activate it as well.

Switch-on time 07:00 Switch-off time 18:00 **CORRECT**

Switch-on time 22:00 Switch-off time 05:00 INCORRECT



PROGRAMMING EXAMPLE

Let's suppose that the weekly programmer function is to be used and 4 time periods are to be used in the following way: 1st time period: from 08:00 to 12:00 every day of the week excluding Saturday and Sunday
2nd time span: from 15:00 to 22:00 only on Saturdays and Sundays, both times with a 75°C water temperature setpoint

The display will show the various programming steps.

CONTROLS PROCEDURE:

SET CLOCK

Press the key 6, set clock WILL APPEAR. Press key 2 until "**SET CHRONO**" is displayed.

SET CHRONO

1ST TIME PERIOD SWITCH-OFF
Use buttons 4-5 to enter the time
"12:00", which corresponds to the
switch-off time of the 1st time period.
To confirm and continue programming,
press button 6. Press button 3 to go

back to the previous parameter.

STOP PRG1 12:00

ENABLE CHRONO

Press key 6, **ENABLE CHRONO** and **OFF** will appear.

Press key 4 to activate or deactivate the **CHRONO** function. Select **ON**.

ENABLE CHRONO ON ENABLE 1ST TIME PERIOD DAYS Use keys 4 and 5 to enable/disable the days, 2 and 3 to scroll through the days; the day of the week will be displayed followed by **OFF** select from Monday to Elisirt in **ON**, excluding Saturday and Sunday (OFF)

MONDAY..PRG1 ON-OFF

Press key 6 to confirm and continue programming. **START PRG1 OFF** will appear.

START PRG1 OFF SET H2O TEMPERATURE 1ST TIME SPAN

Press key 6 to confirm and continue programming.

Use keys 4-5 to select the desired **H20** temperature. (65-80°C)

Press key 6 to confirm and continue.

SET PRG1 75°C

1ST TIME PERIOD SWITCH-ON

Use keys 4-5 to enter the time "8:00", which corresponds to the switch-on time of the 1st time period.
To confirm and continue programming,

To confirm and continue programming press button 6. Press button 3 to go back to the previous parameter.

START PRG1 08:00 2ND TIME PERIOD SWITCH-ON At this point, the second time period must be programmed.

The sequence to be followed is the same and is repeated as for the 1ST TIME PERIOD SWITCH-ON.

START PRG2 OFF

*2ND TIME PERIOD SWITCH-ON

At this point, the second time period must be programmed.

The sequence to be followed is the same and is repeated as for the 1ST TIME PERIOD SWITCH-ON.

On this occasion it is only necessary to enter the time, for example start at 15:00 and Stop at 22:00 and to activate the days Saturday and Sunday by setting them at "ON".



WHEN THE WEEKLY PROGRAMMER IS ACTIVE, A BOX OF THE RELATIVE ICON WILL APPEAR ON THE CONTROL BOARD.





CLEANING AND MAINTENANCE

ALWAYS FOLLOW THE INSTRUCTIONS IN MAXIMUM SAFETY CONDITIONS!

- Make sue the power cable is unplugged since the generator could be programmed to start.
- That the generator is cold in its entirety.
- The ashes are completely cold.
- Ensure an effective exchange of air in the room during the cleaning of the product.
- A poor cleaning is detrimental to the proper functioning and safety!

MAINTENANCE

For correct operation, the generator must undergo routine maintenance by a **qualified technician** at least once a year. The routine checks and maintenance operations must always be performed by **qualified** trained technicians in accordance with the applicable regulations in force and with the instructions provided in this use and maintenance manual.



EVERY YEAR MAKE THE EXHAUST FUMES, SMOKE DUCTS AND "T"-FITTINGS, INCLUDING CAPS AND INSPECTION DOORS BE CLEANED - IF ANY CURVES AND ANY HORIZONTAL SECTIONS!

THE CLEANING OF THE GENERATOR FREQUENCY IS APPROXIMATE! THEY DEPEND ON THE QUALITY OF THE PELLETS USED AND THE FREQUENCY OF USE.

IT CAN HAPPEN THAT THESE OPERATIONS SHOULD BE PERFORMED MORE FREQUENTLY.

CLEANING AND MAINTENANCE BY THE USER

Routine cleaning operations, as specified in this use and maintenance manual, must be performed with the utmost care according to the instructions, procedures and frequency intervals described in this use and maintenance manual

CLEANING THE SURFACES AND COVERING

Never use abrasive or chemically aggressive detergents for cleaning!

The surface cleaning must take place when both the generator and the coating are completely cold. For the maintenance of surfaces and metal parts, simply use a damp cloth with water or mild soap and water.

Failure to observe the instructions may damage the surface of the generator and invalidate the warranty.

CLEANING THE CERAMIC GLASS

Never use abrasive or chemically aggressive detergents for cleaning!

The cleaning of the ceramic glass is allowed only when the latter is completely cold.

To clean the ceramic glazing, simply use a dry brush and some damp newspaper dabbed in the ash. If the glazing is very dirty, only use a specific ceramic glazing detergent. Spray a modest amount onto a cloth and wipe the ceramic glazing.

Do not spray cleaner or any other liquid directly on the glass or on the gaskets.

Failure to observe the instructions may damage the surface of the ceramic glass and invalidate the warranty.

CLEANING THE TANK PELLETS

When the tank empties completely, unplug the power cord from the generator and remove residues (dust, chips, etc..) from the tank empty, before filling it.

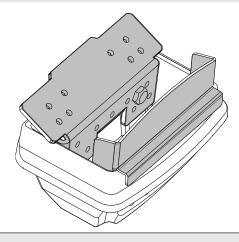


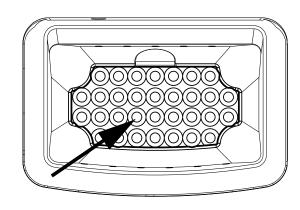
EVERY DAY

Burn pot:

Remove the burn pot from the relevant compartment and free the holes using the appropriate fire irons supplied, remove the ash from the burn pot using a suction device.

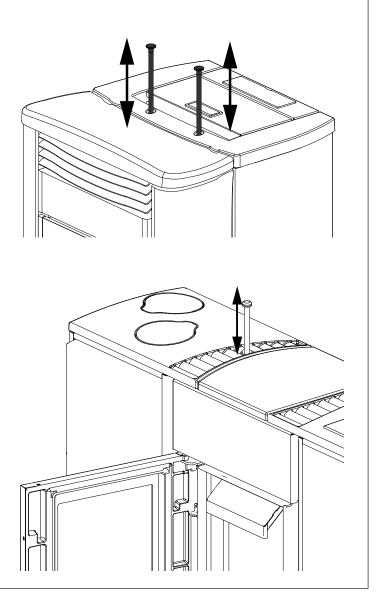
Suck the ash deposited in the brazier compartment.





Scrapers:

Cleaning of the heat exchangers allows to guarantee constant heat output through time. This type of maintenance must be performed at least once a day. To do this, just use the relevant scrapers positioned in the upper part of the stove, moving them up and down several times.

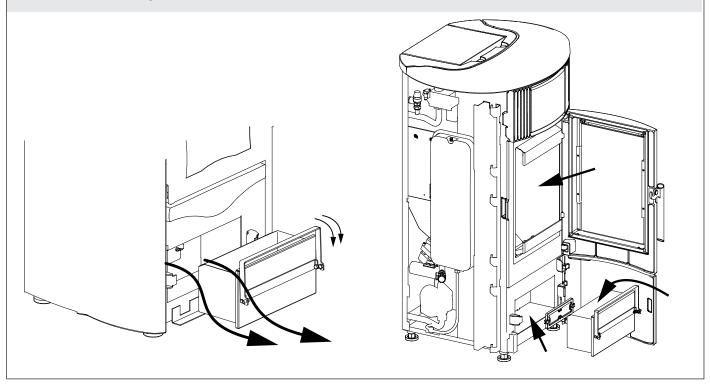




WEEKLY

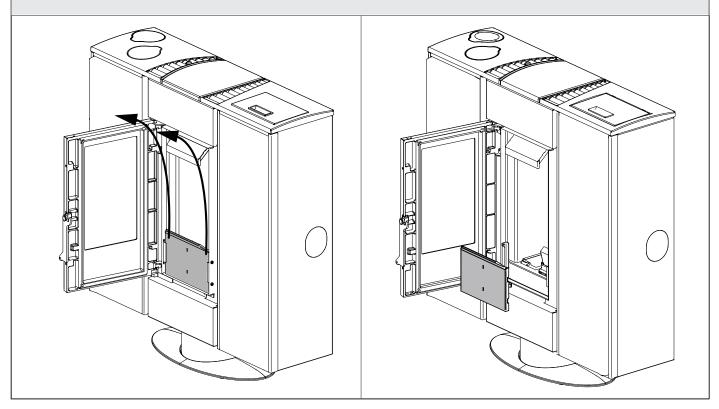
Clean the combustion chamber and the ash drawer:

Empty the ash drawer every week or when required. It is recommended to remove the ash in the combustion chamber at least once a week using a suitable vacuum cleaner



MONTHLY

For the model in the picture below it is recommended to remove the deflector to facilitate cleaning the chamber and the ash drawer

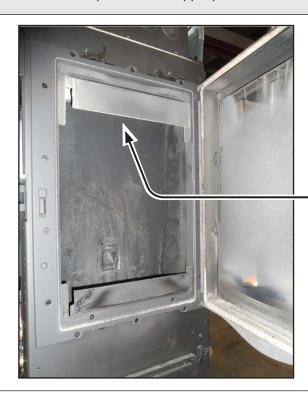


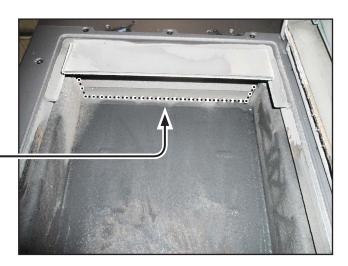


MONTHLY

MELINDA IDRO

Remove the ash deposited in the upper part of the furnace wall (see figure below).





ROUTINE MAINTENANCE PERFORMED BY QUALIFIED TECHNICIANS

Routine maintenance must be performed at least once a year.

Since the generator uses pellets as its solid fuel, it requires an annual routine maintenance operation which must be performed by a **qualified technician**, using original spare parts only.

Failure to comply with the above can compromise the safety of the appliance and void the guarantee conditions.

Complying with the cleaning intervals dedicated to the user described in the use and maintenance manual will guarantee the correct combustion by the generator over time, avoiding any malfunctioning and/or failures which could require further intervention by the technician. Routine maintenance requests are not covered by the product guarantee.

DOOR GASKETS, ASH DRAWER AND BURN POT

Gaskets guarantee the hermetic seal of the stove and its ensuing correct operation.

They must therefore be checked regularly: should they be worn or damaged, replace them immediately.

This must be performed by a qualified technician.

CONNECTION TO THE CHIMNEY

Suction and clean the flue duct leading to the chimney once a year or whenever necessary. If the installation entails horizontal flue duct sections, suction all residue before it obstructs the passage of fumes.

DECOMMISSIONING (END OF SEASON)

At the end of every season, before you turn the stove off, it is advisable to empty the pellet tank completely, suctioning any pellet residue and dust from the inside.

In addition, disconnect the generator from the electricity supply and, for increased safety - particularly if children are present - remove the power supply cable.

Routine maintenance must be performed at least once a year.

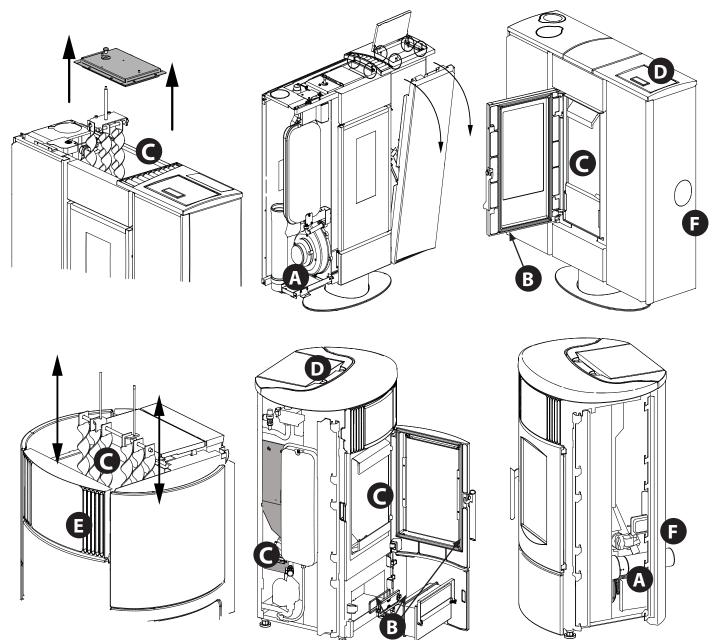


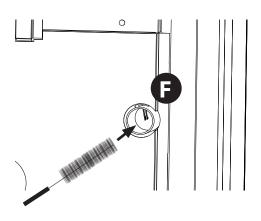
IF THE POWER SUPPLY CABLE IS DAMAGED, IT MUST BE REPLACED BY TECHNICAL SERVICE STAFF OR IN ANY CASE BY A SIMILARLY QUALIFIED TECHNICIAN, SO AS TO AVOID ALL RISKS.



ROUTINE MAINTENANCE

The pictures are purely indicative





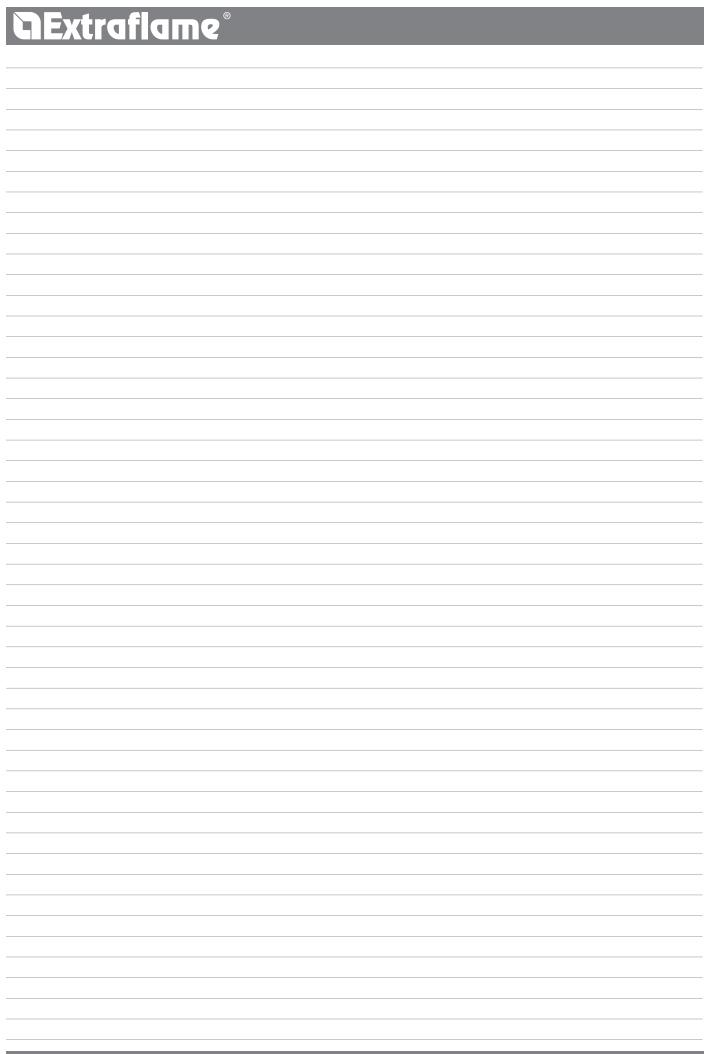
A	Fumes motor (disassembly and cleaning and fumes pipe and "T"), new silicone in the provided points	✓
B	Inspections of gaskets, ash drawer and door (replace them and apply silicone where envisioned)	✓
9	Combustion chamber and heat exchanger (full cleaning) including ignition-plug pipe	V
0	Feed box (complete emptying and cleaning).	✓
3	*Room air fan disassembly and removal of dust and debris of any pellets	✓
B	Check air intake pipe and cleaning of the flow sensor	✓



DISPLAYS				
DISPLAY	REASON	MEANING		
START	The start phase is in progress	_		
PELLET FEEDING	the continuous feeding of the pellets during the ignition phase is in progress	-		
IGNITION	The ignition phase is in progress			
START-UP	The start-up phase is in progress	_		
BURN POT CLEANING	The automatic burn pot cleaning is in progress	_		
FINAL CLEANING	The final cleaning is in progress	_		
STAND-BY COOLING	Start-up attempt while the stove is still in cooling mode	Every time the stove displays one of the alarms listed above it will switch- off automatically. The alarm can only be released using button 1 when it switch-off has been completed. The stove can only be switched back on when it completely cold		
WORK	The normal operating phase is in progress, the stove is operating at the set power	-		
MODULATION	the stove is operating at minimum	-		
STAND - BY	Stove off waiting for re-ignition due to an external thermostat	The stove will only re-start when the external thermostat will request it		
STDBY-BLACK OUT	The stove is cooling after a power cut.	Once cooling is complete, it will automatically ignite		
ROOM T	Displays room temperature (in the models where provided)	-		
HOFF	Stove off due to water temperature over set	As soon as the water temperature drops below the set parameters, the stove will switch back on		
ANTI-FREEZE	The anti-freeze function is in progress as the H2O t° is below the factory set threshold	the pump is active until the water reaches the pre-set factory parameter +2°C		
ANTILOCK	The pump anti-locking function is in progress (only if the stove has been in Off status for at least 96 hours)	the circulator is activated for the amount of time set by the manufacturer to prevent it from locking		

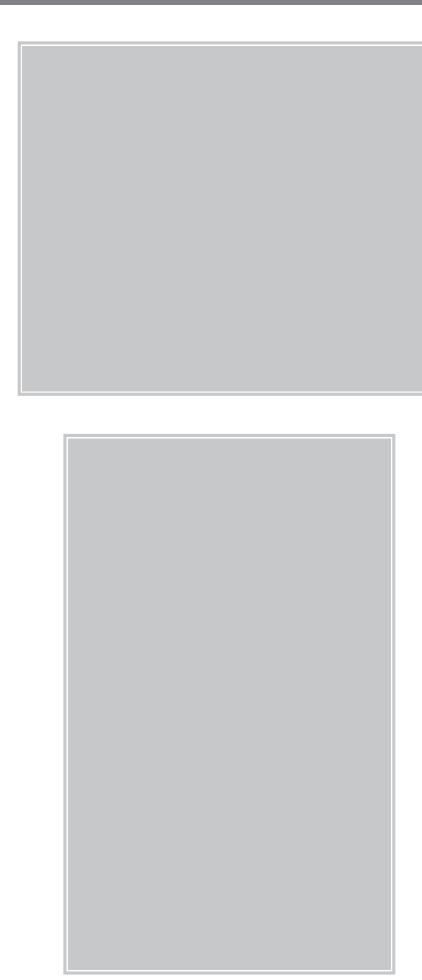


ALARMS				
DISPLAY	EXPLANATION	SOLUTION		
<u> </u>	Indicates the presence of an alarm.	On: indicates the presence of an alarm Flashing: indicates the deactivation of the depression sensor. The alarm can be reset by pressing key 1 for 3 seconds only if the fumes motor has stopped and if 15 minutes have passed from when the alarm was displayed.		
ASPIRATION FAULT	Fumes motor fault	Contact after-sales centre		
FUMES PROBE	Fumes probe failure.	Contact after-sales centre		
HOT FUMES	High flue gas temperature	Verify pellet feed (see "Pellet feed regulation"). If the problem cannot be solved, contact an authorised technician.		
CLEAN CHECK UP 1 - 2 (1 = START-UP PHASE) (2= WORK PHASE)	The door is not closed correctly. The ash drawer is not closed correctly. The combustion chamber is dirty. The flue exhaust pipe is blocked.	Check hermetic door closure. Check hermetic closure of the ash drawer. Check cleanliness of the fumes pipe, of the sensor in the primary air channel and the combustion chamber.		
NO IGNITION	The pellet feed-box is empty. Pellet feed calibration inadequate.	Check for the presence of pellets in the feed-box. Adjust pellet flow (see "Pellet feed adjustment"). Check the procedures described in the "Ignition" chapter.		
NO IGNITION BLACK OUT	No current during the ignition phase.	Take the stove to OFF conditions using key 1 and repeat the procedure described in the "Ignition" chapter.		
NO PELLETS	The pellet feed-box is empty. No pellet feed. The motor reducer does not feed pellets.	Check for the presence of pellets in the feed-box. Adjust pellet flow (see "Pellet feed adjustment").		
DEPR ALARM	The door is not closed correctly. The ash drawer is not closed correctly. The combustion chamber is dirty. The flue exhaust pipe is blocked	Check hermetic door closure. Check hermetic closure of the ash drawer. Check cleanliness of the fumes pipe and the combustion chamber.		
DEBIMETER FAULT	Faulty flow sensor. Sensor disconnected	Contact after-sales centre		
H20 OVERTEMPERA- TURE	The water in the stove has exceeded 95°C. Possible air in the system. Insufficient circulation. No or inadequate safety zone. Possible circulator anomaly.	Contact after-sales centre		
MINIMUM PRESSURE ALARM	The system pressure read by the pressure switch is too low. Possible presence of air in the system. Possible lack of water or leaks due to anomalies in some system component.	Contact after-sales centre		
H2O PROBE ALARM	H2O probe failure			
MAX H2O PRESSURE ALARM	The pressure of the water has exceeded the max threshold	Check that the expansion vessels are not damaged or under-dimensioned Check that the cold system is loaded at the correct pressure		











Riscaldamento a Pellet

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The Manufacturer reserves the right to vary the features and data shown in this booklet at any time and without prior notice, in order to improve its products.

This manual cannot be considered as a contract for third parties.